

### **REMARKS**

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

In the specification, paragraphs 0015-0024, 0026-0046, 0048-0068, and 0070-0109 have been amended.

Applicant respectfully submits that the disclosure of Applicant's application provides support for the amendments to the claims. For example, at least paragraph 0117 of Applicant's specification provides support for the amendments to claim 1.

This amendment adds, changes and/or deletes claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claim(s) remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending the claims as set forth above, claims 1-11, 13, 14, 22, 23, 25, 26, 34, 35, and 37-62 are now pending in this application. Claims 13, 14, 22, 23, 25, 26, 34, 35, and 37-62 have been withdrawn from consideration.

#### **Objection to the Specification**

The specification is objected to for containing references to the claims. Applicant respectfully submits that the amendments to the specification render this objection moot. Reconsideration and withdrawal of this objection is respectfully requested.

#### **Rejections under 35 U.S.C. § 102**

Claims 1 and 3-11 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by U.S. Patent No. 5,138,221 to Arato *et al.* (hereafter "Arato"). This rejection is respectfully traversed.

A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference. *Verdegaal Bros. v.*

*Union Oil Co. of California*, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). See generally MPEP § 2131.

Arato discloses a metallic wire heater 1 with a first insulating layer 301 formed in contact with the wire 1 and a second insulating layer 302 formed on the first insulating layer 301. See Arato at col. 3, lines 32-48; col. 4, line 65, to col. 5, line 27. A dark layer 5 may be provided on the second insulating layer 302 that enhances the heating efficiency of the heater. See Arato at col. 1, lines 16-35, and col. 6, lines 46-52. Arato also discloses an insulated heater 900 that includes a platinum wire coil 901, lead wires 902, a first insulating layer 904 formed on the wire coil 901, a second insulating layer 905 formed around a space 909, and a glass protective layer 903 formed about the second insulating layer 905. See Arato at col. 11, line 61, to col. 12, line 28.

However, Arato does not disclose a heater coil for a gas sensor used in a catalytic combustion gas sensor comprising, among other things, a bead portion and lead portions extending from both ends of the bead portion, wherein the bead portion is covered by a heat conductive layer such that the bead portion is directly in contact with the heat conductive layer, as recited in claim 1. Claims 3-11 depend from claim 1.

Instead, Arato discloses that the first insulating layer 301, 904 is formed around and in contact with the heating wire, as shown in Figures 3a, 3b, and 9 of Arato. Arato discloses a dark layer 5 to enhance the heating efficiency of the heater but this dark layer 5 is provided on the outside of the second insulating layer 302 and does not cover the wire 1 such that the dark layer is directly in contact with the wire, as recited in claim 1.

For at least the reasons discussed above, Arato does not anticipate claims 1 and 3-11 because Arato does not disclose all of the features of claim 1. Reconsideration and withdrawal of this rejection is respectfully requested.

Claims 1, 2, and 8 are rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by U.S. Patent No. 6,465,949 to Miahara *et al.* (hereafter “Miahara”). This rejection is respectfully traversed.

Miahara discloses an incandescent lamp 10 that includes a double-coil type filament 20 arranged within a glass bulb 11 which is filled with an inert gas. See Miahara at col. 2, line 61, to col. 3, line 33.

However, Miahara does not disclose a heater coil for a gas sensor used in a catalytic combustion gas sensor comprising, among other things, a bead portion and lead portions extending from both ends of the bead portion, wherein the bead portion is covered by a heat conductive layer such that the bead portion is directly in contact with the heat conductive layer, as recited in claim 1.

Miahara does not disclose that the double-coil filament 20 is covered by a heat conductive layer such that the bead portion is directly in contact with the heat conductive layer, as recited in claim 1. Instead, Miahara discloses that the double-coil filament is surrounded by a glass bulb 11 and inert gas.

For at least the reasons discussed above, Miahara does not anticipate claims 1, 2, and 8 because Miahara does not disclose all of the features of claim 1. Reconsideration and withdrawal of this rejection is respectfully requested.

#### **Rejection under 35 U.S.C. § 103**

Claim 2 is rejected under 35 U.S.C. § 103(a) as allegedly being anticipated by Arato in view of Miahara. This rejection is respectfully traversed. As discussed above, Arato and Miahara fail to disclose or suggest all of the features of claim 1, from which claim 2 depends. Reconsideration and withdrawal of this rejection is respectfully requested.

#### **Conclusion**


Applicant submits that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing or a credit card payment form being unsigned, providing incorrect information resulting in a rejected credit card transaction, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

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By 

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